

10 12 14A 15A 16A 17A 18A 19A 20A 20B 20C 20D 10 12 14B 15B 16B 17B 18B 19B 20B 20C 20D 10 12 14C 15C 16C 17C 18C 19C 20C 20D 10 12 14D 15D 16D 17D 18D 19D 20D

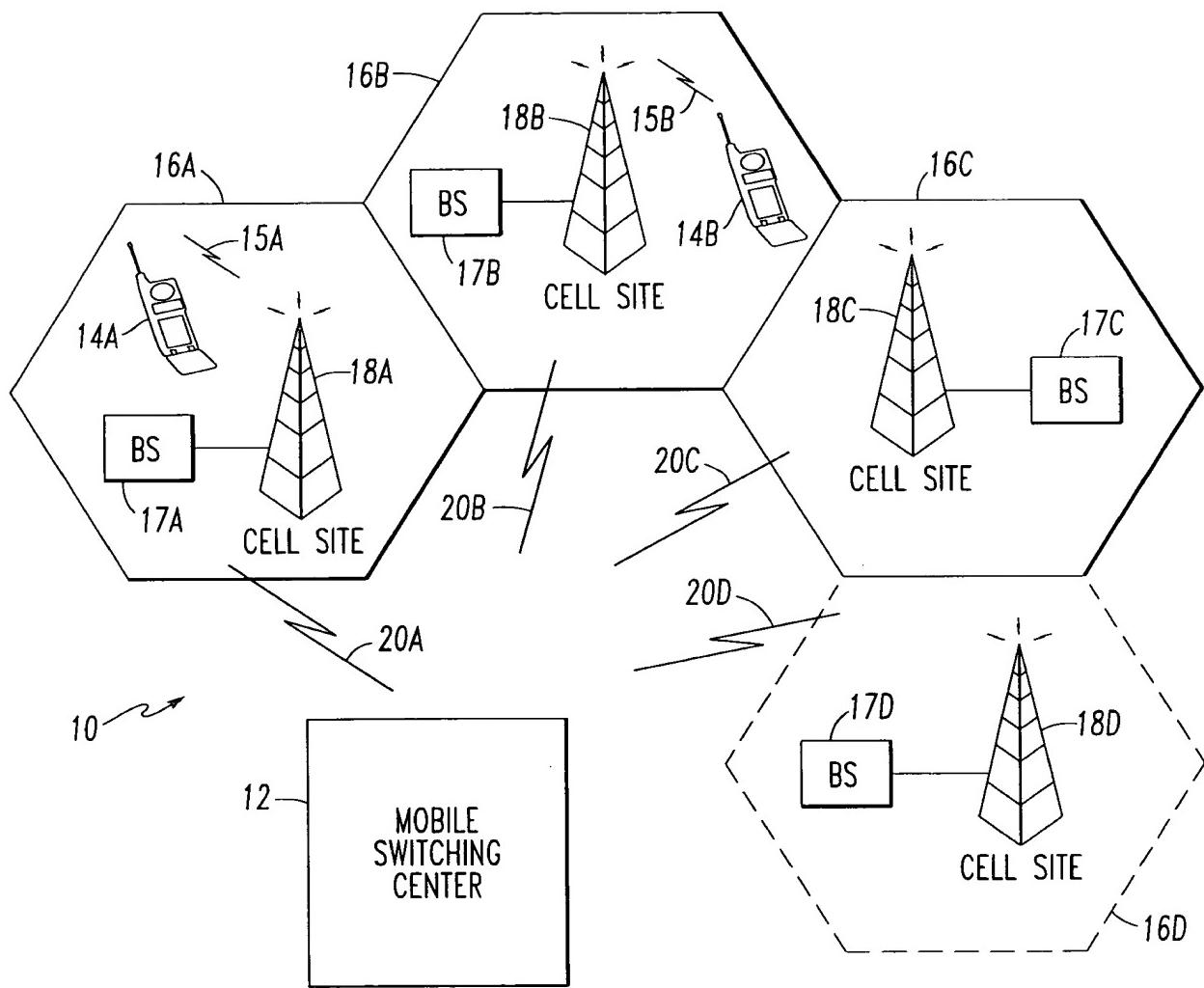


FIG.1

2/14

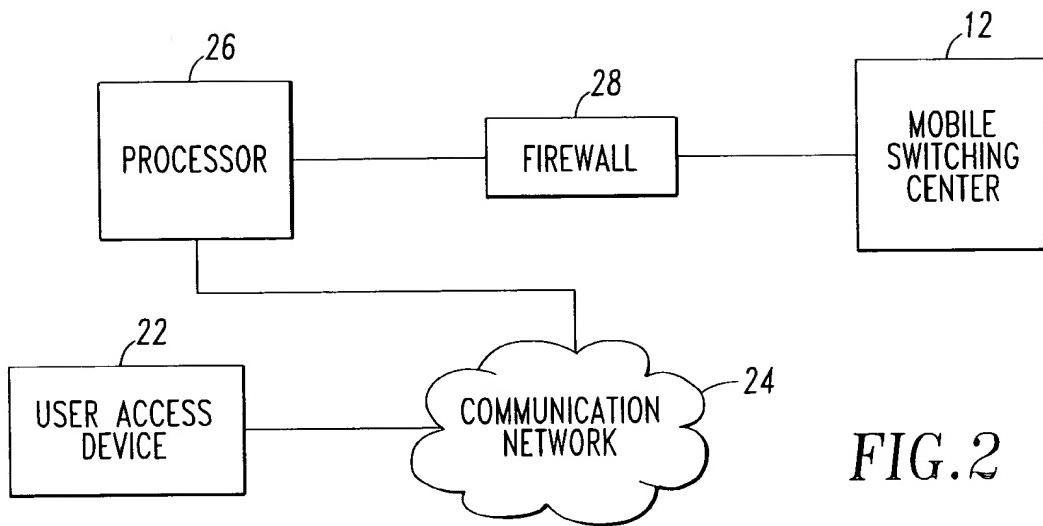


FIG.2

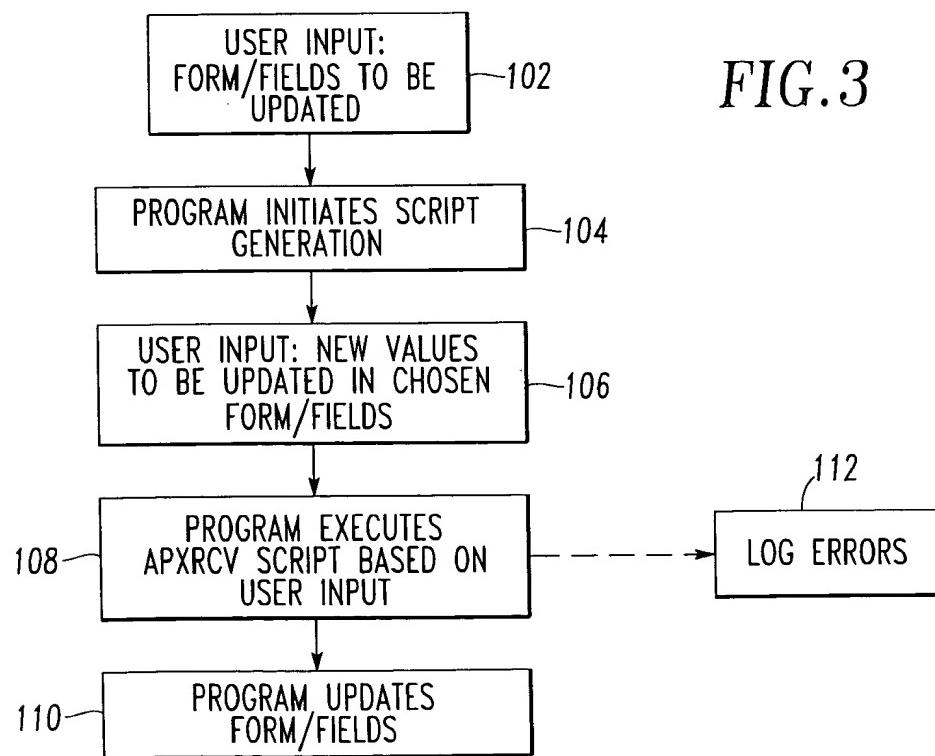


FIG.3

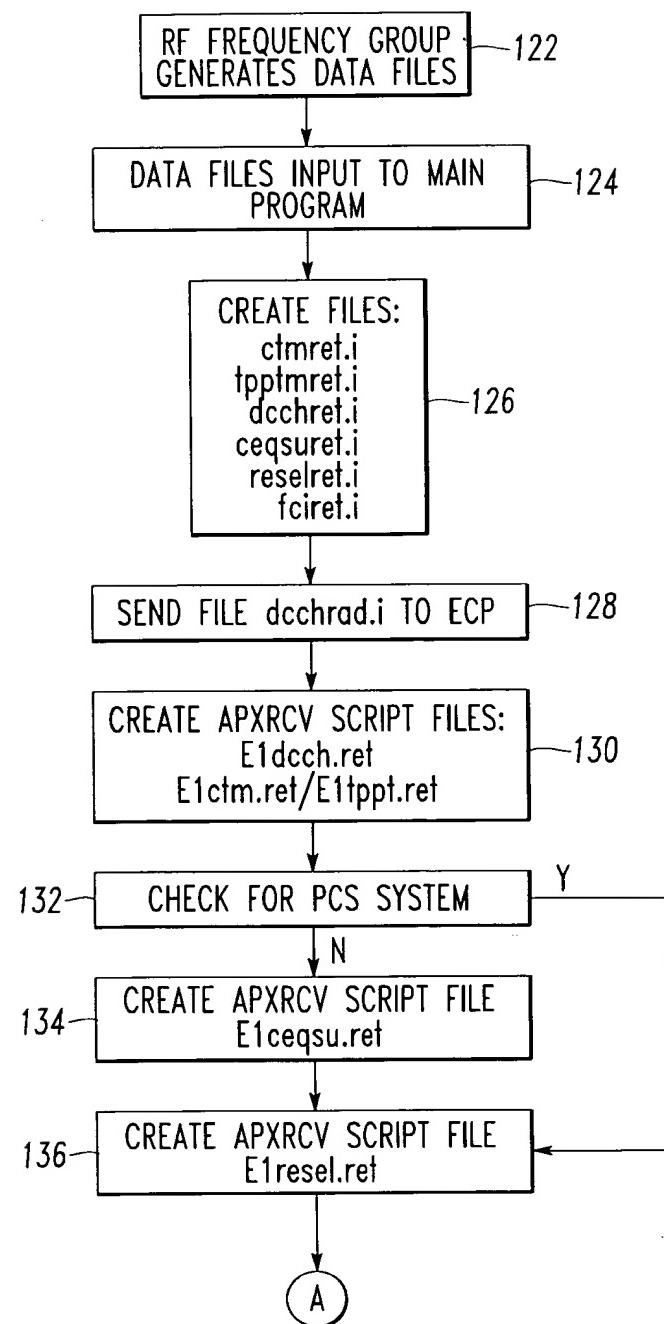


FIG.4A

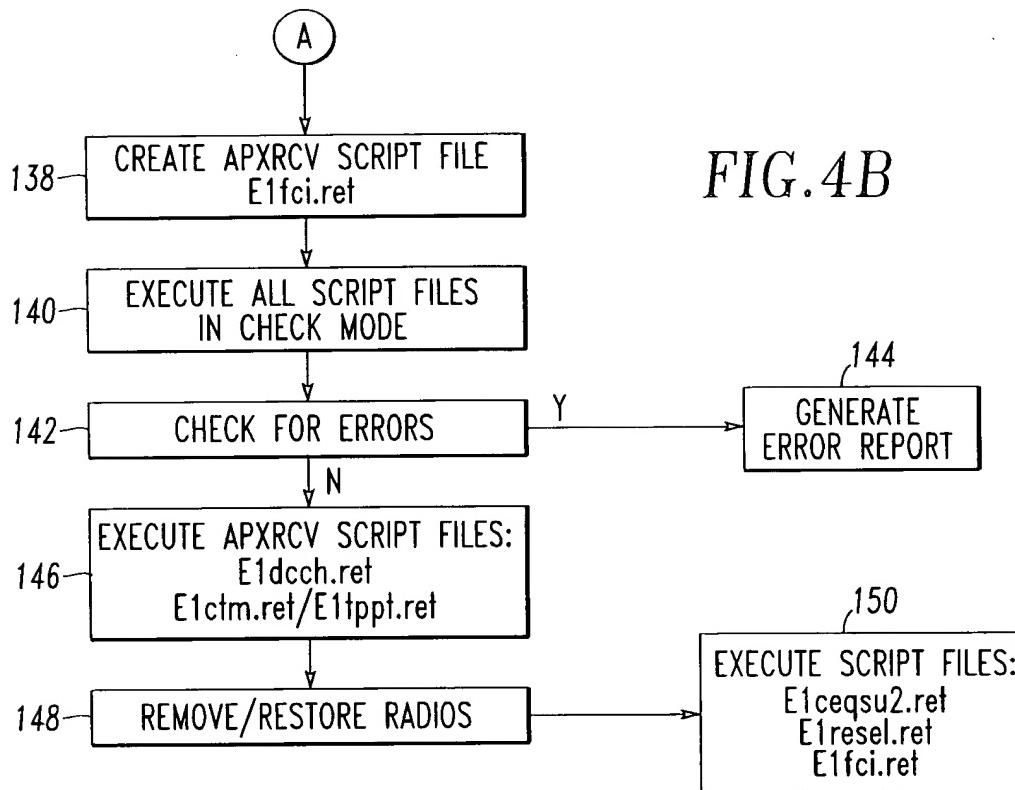


FIG.4B

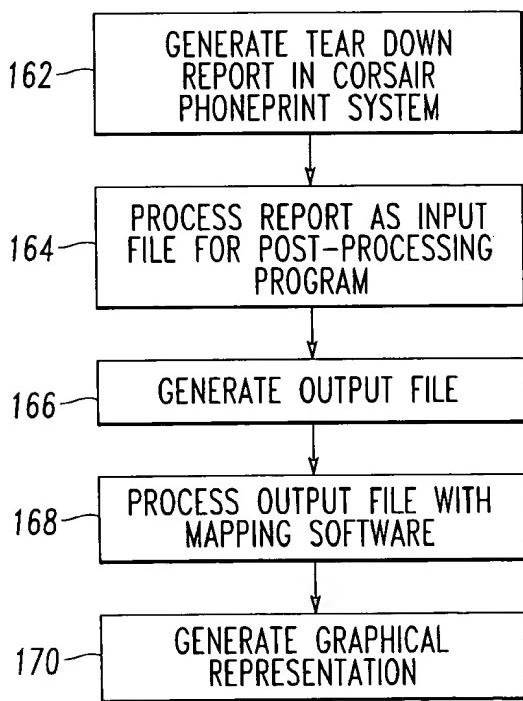


FIG.5

5/14

>pg pp9912.txt

Date	Time(2)	Site_ID	MIN(1)	Dialed_Digits	Tear-Down_Reason
12/25/99	19:26:09	20	2012075854	12014981322	MFG
12/23/99	14:56:20	219	2012075854	5617767114	MFG
12/26/99	21:40:32	167	2012130072	19547814445	MFG
12/23/99	19:06:49	82	2012134416	9544289147	MFG
12/23/99	19:06:23	82	2012134416	9544289147	MFG
12/25/99	17:23:55	82	2012134416	9544285083	MFG
12/25/99	15:06:20	82	2012134416	2015680907	MFG
12/25/99	13:04:16	82	2012134416	2015680907	MFG
12/25/99	13:04:05	82	2012134416	2015680907	MFG
12/25/99	13:03:53	82	2012134416	2015680907	MFG
12/25/99	13:03:31	82	2012134416	2015680907	MFG
12/25/99	13:01:49	82	2012134416	2015680907	MFG
12/25/99	12:53:38	82	2012134416	2015680907	MFG
12/25/99	12:52:32	82	2012134416	2015680907	MFG
12/25/99	12:52:03	82	2012134416	2015680907	MFG
12/25/99	12:50:48	82	2012134416	2015680907	MFG
12/25/99	12:48:15	82	2012134416	2015680907	MFG
12/25/99	12:47:16	82	2012134416	5680907 MFG	
12/24/99	11:58:50	82	2012134416	8003328463	MFG
12/24/99	11:58:08	82	2012134416	8003328463	MFG
12/24/99	10:03:16	82	2012134416	9544289147	MFG
12/22/99	14:58:09	80	2012300764	19546467166	MFG
12/29/99	10:54:28	177	2012499657	19086881800	MFG
12/29/99	10:51:49	177	2012499657	9412503698	MFG
12/29/99	10:25:04	145	2012499657	12012400657	MFG
12/29/99	10:24:42	145	2012499657	12012400657	MFG
12/27/99	21:26:01	49	2012476225	15616551115	MFG
12/24/99	19:22:48	219	2012476225	15615551212	MFG
12/24/99	19:22:26	219	2012476225	15615551212	MFG
12/24/99	19:22:06	219	2012476225	15615551212	MFG
12/24/99	19:13:38	219	2012476225	5617950022	MFG
12/27/99	12:01:06	20	2012476225	15614996976	MFG
12/23/99	16:23:47	12	2012640686	3105152822	MFG
12/23/99	16:17:19	12	2012640686	3105152822	MFG
12/23/99	16:17:03	12	2012640686	3105152822	MFG

FIG.6

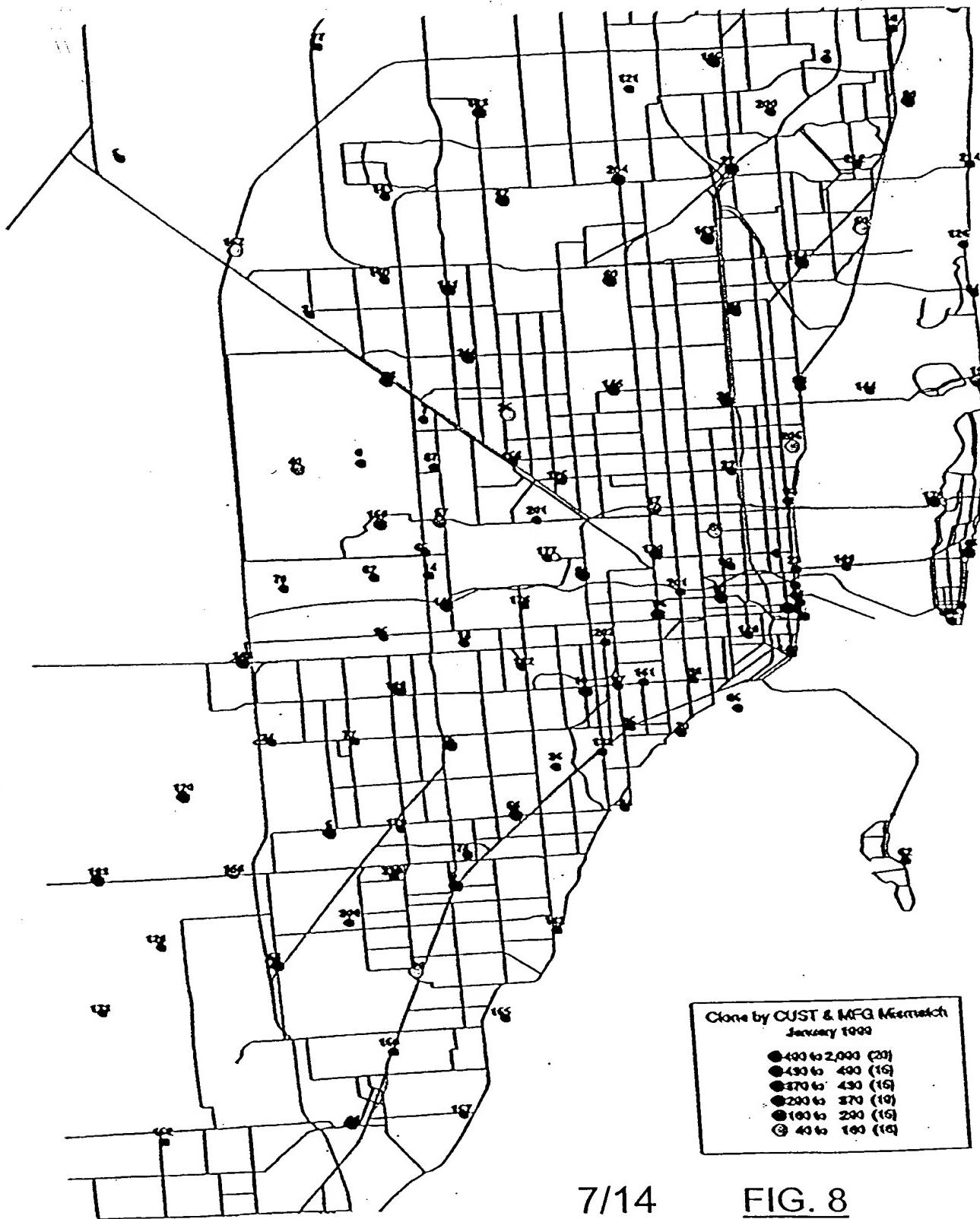
6/14

```
>pg map1299
ECP, CellNo,Longitude, Latitude, Count
4,1,-80.1675,26.155278,148
3,5,-80.361111,25.699444,209
1,6,-80.171667,26.36,675
1,7,-80.144167,26.562778,173
1,8,-80.109722,26.760556,76
3,9,-80.317222,25.679444,311
3,10,-80.266667,25.747222,115
4,15,-80.123056,25.854167,510
4,16,-80.198611,26.248889,401
1,18,-80.088889,26.45,380
1,20,-80.058611,26.651944,216
4,22,-80.210833,25.848611,138
4,23,-80.128889,26.085833,844
4,25,-80.288889,25.845556,55
1,26,-80.201111,26.630833,251
4,27,-80.204722,25.93,590
3,38,-80.360833,25.596667,255
3,39,-80.333889,25.649444,584
4,30,-80.415,26.086389,207
4,31,-80.175833,26.121944,128
1,37,-80.681389,26.686667,213
4,40,-80.364444,25.828333,156
4,42,-80.286944,25.920556,147
4,43,-80.168056,26.024722,333
3,46,-80.129167,25.793611,2694
3,47,-80.238611,25.811389,121
1,49,-80.051667,26.711944,381
4,50,-80.160556,25.908611,187
4,52,-80.26,26.121667,456
4,53,-80.105556,26.136389,501
3,54,-80.383333,25.653056,81
4,55,-80.249444,26.268333,314
3,56,-80.294722,25.703889,184
3,57,-80.315,25.808333,21
3,58,-80.265278,25.788333,267
4,60,-80.25,25.891667,205
4,61,-80.090833,26.230278,147
4,64,-80.211667,26.0175,595
```

FIG.7

09234453 "G4462"

0153544567890123456789



7/14

FIG. 8

8/14

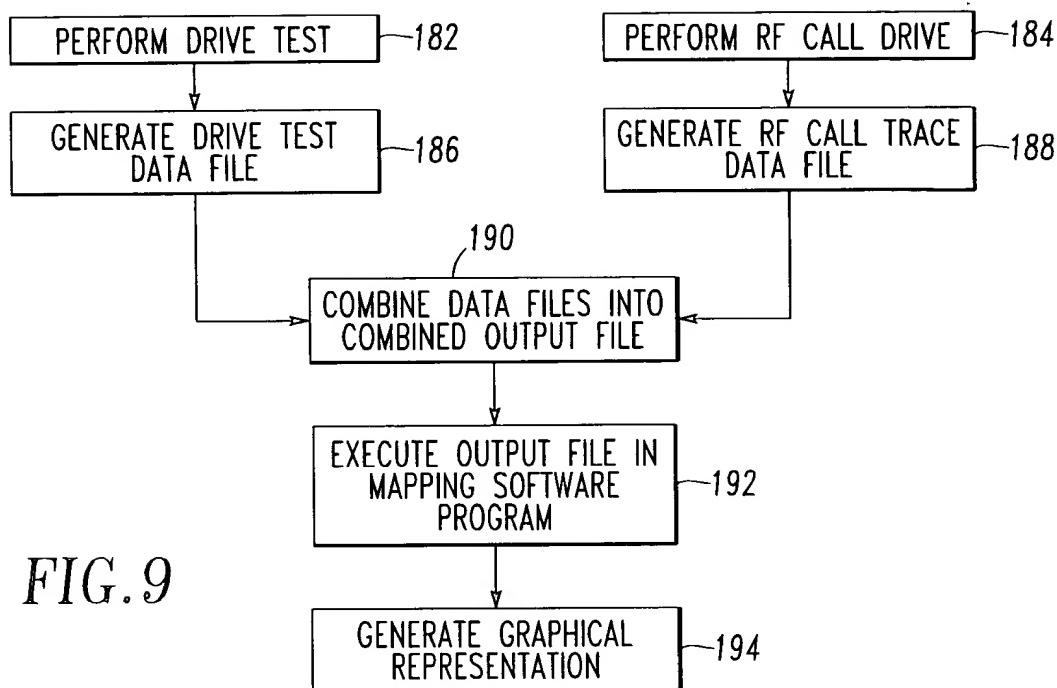


FIG. 9

ER,RBER,FER,BQ,TD,FREQ,TIME,MS,PRINT
DEV,FVC,RVC,TDRVC,FVC,RVC,RVC,RVC,RVC,RVC,ERR,ALIG

28.0069725,9412580201,T017C,MDVC-
15,0,1,0,2,0
28.0069725,9412580201,T017C,MDVC-
15,0,1,0,2,0
28.0069856,9412580201,T017C,MDVC-
15,0,2,0,2,1
28.0069856,9412580201,T017C,MDVC-
15,0,2,0,2,1
28.0070392,9412580201,T005B,MDVC-
2,0,4,0,2,1
28.0072014,9412580201,T005B,MDVC-
7,0,4,0,2,1
28.0072014,9412580201,T005B,MDVC-
7,0,4,0,2,1
28.0073900,9412580201,T005B,MDVC-
8,0,3,0,2,1
28.0073900,9412580201,T005B,MDVC-
8,0,3,0,2,1
28.0075761,9412580201,T005B,MDVC-
7,0,5,0,2,1
28.0075761,9412580201,T005B,MDVC-
7,0,5,0,2,1
592,9412580102,T005B

FIG. 11B

9/14

MOBILE TELEPHONE CELL TRAFFIC RECORDING
DIGITAL SIGNAL STRENGTH MEASURMENTS

MSNB	CELL	DEV	SSFVC	SSRVC
9412580201	T017C	MDVC-1060	23	20
SSSTDRC	BERFVC	BERRVC	RBERRVC	FERRVC
6	3	2	2	0
BQRVC	TDRVC	FREQERR	TIMEALIGN	MSPOW
6	3	1	0	2
NCELL	NSSFFMC	MEASCHAN	VIND	
T017A	5	1260	Y	
T017B	23	1272	Y	
T006B	17	1300	Y	
T016B	13	1305	Y	
T004A	29	1251	Y	
T005B	33	1302	Y	
T005A	23	1290	Y	
T018A	21	1294	Y	
T154B	21	1303	Y	
TIMW	PRINTIND		FCODE	
11:08:27	0			
END				

MOBILE TELEPHONE CELL TRAFFIC RECORDING CANDIDATE LIST FOR
HANDOFF

MSNB	CELL	TIME	FCODE	URGENCY
9412580201	T017C	11:08:28		0
CANDCELL	CELLTYPE		NTYPE	RATING
T005B	0		STD	0

END

FIG.10

10/14

XTEL LOG FILE

DATE,TIME,LONGITUDE,LATITUDE,ALT,SPEED,HEADING,DPS_MODE,PHONE_TASK,TASK
_DESC,CHAN,RSSI,MODTYPE,SLOT,CHAN_TYPE,SAT,DVCC,POWER,BER,BER_CODE,SBI,T
A,CELL1,DISTANCE1,CELL2,DISTANCE2,CELL3,DISTANCE3,LOWER_CTOA,UPPER_CTOA
,COCHA_RSSI,MARKER,CHAN_GRP,EVENT,EVINFO,BAND,LISTTYPE,LISTCT,CHAN1,RSS
I1,CHAN2,RSSI2,CHAN3,RSSI3,CHAN4,RSSI4,CHAN5,RSSI5,CHAN6,RSSI6,CHAN7,RS
SI7,CHAN8,RSSI8,CHAN9,RSSI9,CHAN10,RSSI10,CHAN11,RSSI11,CHAN12,RSSI12,C
HAN13,RSSI13,CHAN14,RSSI14,CHAN15,RSSI15,CHAN16,RSSI16,CHAN17,RSSI17,CH
AN18,RSSI18,CHAN19,RSSI19,CHAN20,RSSI20,CHAN21,RSSI21,CHAN22,RSSI22,CHA
N23,RSSI23,CHAN24,RSSI24,CHAN25,RSSI25,REVISION
7/30/99,11:08:27,-
82.3321883,27.9813839,9,40.3,86.9,G8,5,Conversation,1218,-
93,D,3,V,3,5,2,0.87,3,0,0,,,,14,15,-100,0,8,,1,Neig,9,1284,-
89,1302,-93,1300,-103,1255,-107,1317,-109,1303,-109,1314,-111,1305,-
111,1315,-
113,0,4
7/30/99,10:52:47,-
82.3321883,27.9813839,9,40.3,86.9,G8,5,Conversation,1218,-
93,D,3,V,3,5,2,0.84,3,0,0,,,,14,15,-100,0,8,,1,Neig,9,1284,-
89,1302,-93,1300,-103,1303,-107,1255,-109,1314,-111,1317,-111,1305,-
111,1315,-
113,0,4
7/30/99,10:52:48,-
82.33219553,27.9813947,10,43.1,,87.0,G8,5,Conversation,1218,-
93,D,3,V,3,5,2,0.84,3,0,0,,,,10,38,-137,0,8,,1,Neig,9,1284,-
89,1302,-93,1300,-103,1303,-107,1255,-109,1314,-111,1317,-111,1305,-
111,1315,-
113,0,4
7/30/99,10:52:48,-
82.3319553,27.9813947,10,43.1,87.0,G8,5,Conversation,1218,-
95,D,3,V,3,5,2,0.84,3,0,0,,,,10,38,-137,0,8,,1,Neig,9,1284,-
83,1302,-93,1300,-101,1303,-105,1255,-109,1305,-111,1314,-113,1315,-
113,1317,-
113,0,4
7/30/99,10:52:49,-
82.3317164,27.9814044,10,44.7,87.2,G8,5,Conversation,1218,-
95,D,3,V,3,5,2,0.99,3,0,0,,,,10,38,-137,0,8,,1,Neig,9,1284,-
83,1302,-93,1300,-101,1303,-105,1255,-109,1305,-111,1314,-113,1315,-
111,1317,-
113,0,4

FIG.11A

11 / 14

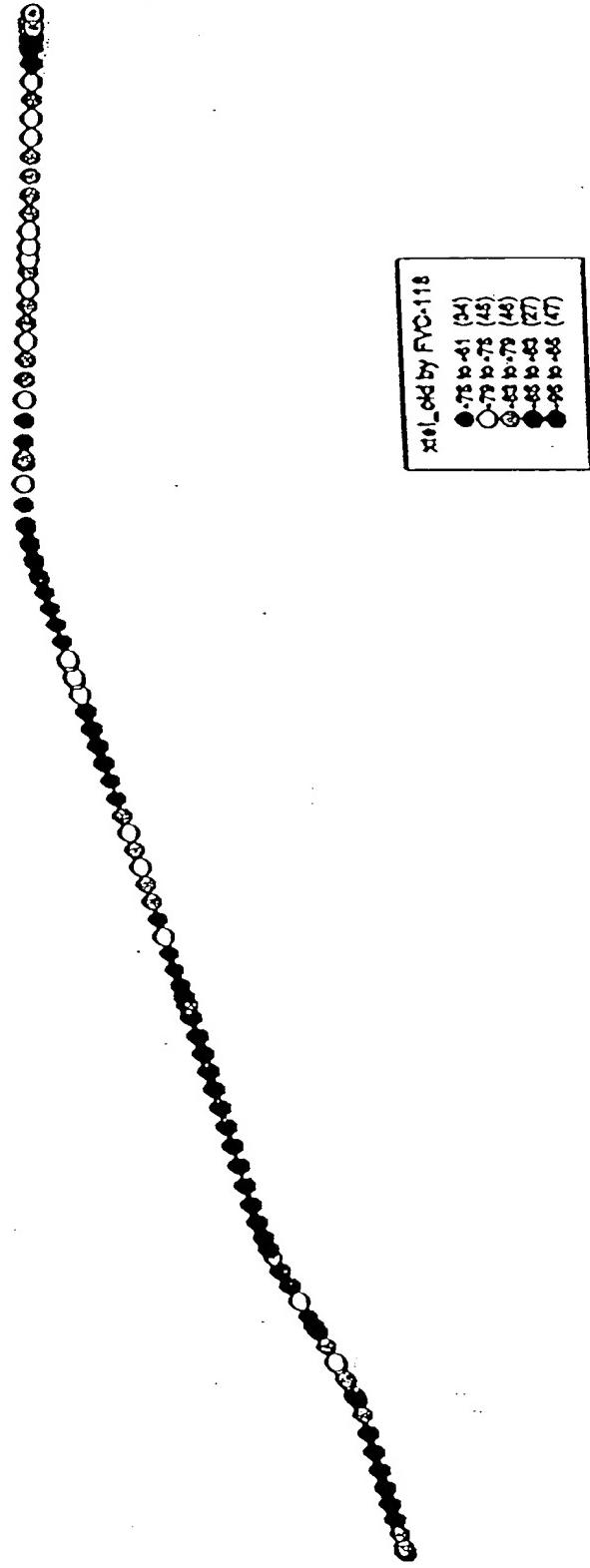


FIG. 12

12/14

COMARCO FILE

13:20:00.8,26.677,-81.567
12:20:01.2,25.230,-81.456
.....
.....
13.21.00.3,28.655,-81.2128

FIG. 13A

Time,Long,Lat,CellNo,SS,
12:41:29,28,6559300,-18.205792000,1353,-124
12:41:29,28,6559300,-18.205792000,201,-106
12:41:29,28,6559300,-18.205792000,32,-106
12:41:29,28,6559300,-18.205792000,321,-76
12:41:29,28,6559300,-18.205792000,323,-66
12:41:29,28,6559300,-18.205792000,831,-100
12:41:30,28,6559260,-18.205580000,323,-66
12:41:31,28,6559170,-18.205380000,321,-75
12:41:31,28,6559170,-18.205380000,321,-75
12:41:31,28,6559170,-18.205380000,323,-64
12:41:32,28,6559080,-18.205198000,323,-63
12:41:33,28,6558950,-18.204922000,321,-73
12:41:33,28,6558950,-18.204922000,323,-62
12:41:34,28,6558900,-18.204769000,321,-73
12:41:34,28,6558900,-18.204769000,321,-73
12:41:34,28,6558900,-18.204769000,322,-98
12:41:34,28,6558900,-18.204769000,323,-61
12:41:35,28,6558900,-18.204577000,1353,-124
12:41:35,28,6558900,-18.204577000,201,-105
12:41:35,28,6558900,-18.204577000,202,-106
12:41:35,28,6558900,-18.204577000,32,-105
12:41:35,28,6558900,-18.204577000,323,-63
12:41:35,28,6558900,-18.204577000,831,-99
12:41:37,28,6558970,-18.204219000,321,-73
12:41:37,28,6558970,-18.204219000,323,-67
12:41:38,28,6559000,-18.204044000,321,-74
12:41:38,28,6559000,-18.204044000,323,-67
12:41:38,28,6559000,-18.204044000,321,-74
12:41:38,28,6559000,-18.204044000,323,-67
12:41:40,28,6559020,-18.203683000,1353,-122
12:41:40,28,6559020,-18.203683000,202,-104
12:41:40,28,6559020,-18.203683000,32,-105
12:41:40,28,6559020,-18.203683000,321,-73
12:41:40,28,6559020,-18.203683000,322,-96
12:41:40,28,6559020,-18.203683000,323,-67
12:41:41,28,6559070,-18.203457000,321,-72
12:41:41,28,6559070,-18.203457000,323,-66
12:41:42,28,6559100,-18.203125000,321,-71
12:41:42,28,6559100,-18.203125000,323,-66

FIG. 13B

13/14

v----- Record # 1: ----- v
05/10/99 13:22:05 ALM INF 4103 7 32 G TC 457
Call Monitor: Call Record has been Written in RAM disk
Ph#: (407)9223002 Call clear by MS - mobile clear
v----- Record # 2: ----- v
05/10/99 13:22:04 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rssi -77 attn 4 snr 40
v----- Record # 3: ----- v
05/10/99 13:22:04 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id RSSI:/323 / -73
v----- Record # 264: ----- v
05/10/99 13:21:00 ALM INF 4117 7 20 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id RSSI:/201 / -98
v----- Record # 265: ----- v
05/10/99 13:21:00 ALM INF 4117 7 32 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id RSSI:/322 / -103
v----- Record # 266: ----- v
05/10/99 13:21:00 ALM INF 4117 7 83 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id RSSI:/861 / -96
v----- Record # 267: ----- v
05/10/99 13:21:00 ALM INF 4117 7 32 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id RSSI:/321 / -78
v----- Record # 268: ----- v
05/10/99 13:21:00 ALM INF 4117 7 135 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id RSSI:/1353 / -113
v----- Record # 269: ----- v
05/10/99 13:21:00 ALM INF 4117 7 20 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id RSSI:/302 / -100
v----- Record # 270: ----- v
05/10/99 13:21:00 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rssi -72 attn 4 snr 40
v----- Record # 271: ----- v
05/10/99 13:21:00 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id RSSI:/323 / -71
v----- Record # 272: ----- v
05/10/99 13:21:00 ALM INF 4117 7 3 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id RSSI:/32 / -115

FIG.14

14/14



the0528_out by SS			
O	-85	-66	(400)
●	-92	-65	(344)
●	-93	-62	(469)
●	-105	-66	(440)
●	-115	-106	(422)
●	-127	-116	(509)

FIG.15